

# WNL LED

A durable and robust linear luminaire designed to replace conventional fluorescent fixtures in industrial, commercial and tunnel applications.



0–10 V dimming  
1%–100%

Multiple light output options to  
replace fluorescent fixtures

IP66 vented enclosure eliminates pressure  
differentials for reliable sealing

Easy field angle  
adjustment  
with optional  
swivel mount

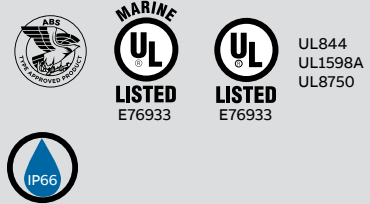
Surface or suspension  
mounting

## CLASSIFICATION

CLASS I	
Division 2	Groups A, B, C, D
Zone 2	Group IIC
CLASS II	
Division 2	Groups F, G
Zone 22	Group IIB
CLASS III	

Contact your ABB sales representative  
to verify classification

## CERTIFICATIONS



## Applications

- Tunnels
- Interior fluorescent replacement
- Loading docks

## WNL LED

### Key features and benefits

#### Features

- 100% field serviceable
- Minimum CRI of 70
- Up to 115 lumen/watt delivered
- -40 to 46 °C operating range
- IP66 vented enclosure

#### Finish

- Powder-coated end caps
- Polycarbonate lens resistant to impact with an integral hinge part of the fixture
- Ideal for dirty, wet and corrosive environments

#### Housing

- Copper-free high-pressure die-cast aluminum end caps and extruded aluminum body
- Suitable for wet locations (IP67)
- Lens and case are designed to withstand severe impact and vibration
- Vented enclosure eliminates pressure differentials and ensures reliable sealing

#### Output

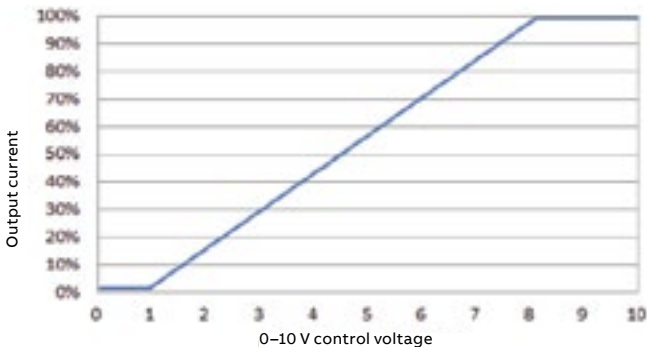
- 3,970 up to 14,313 lumens
- 0–10 V dimmable

#### Mounting

- Versatile brackets allow for several mounting styles:
  - Surface mount
  - Suspended mount
  - Angle adjustable mount

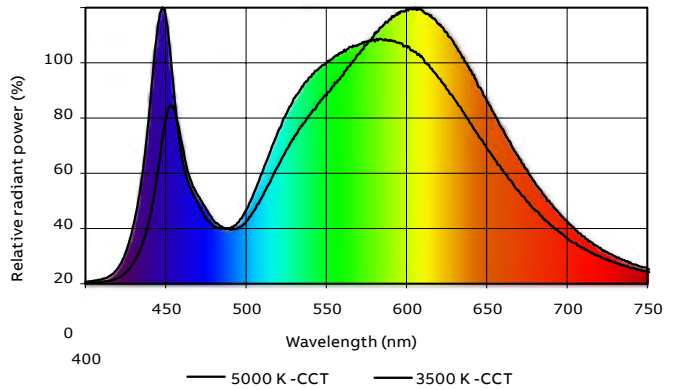
#### Dimming

Driver will source a maximum of 200  $\mu$ A for control needs. A controller must sink current from 0–10 V control leads.



#### Color temperature

Available standard in 3500 K and 5000 K color temperatures, with additional color temperatures available from 2700 to 6500 K.



#### Light engine

- Metal core PCB
- Fault tolerant and fail-over design ensures reliability and resilience to damage

#### Nichia LEDs

- Proven reliability
- High efficiency
- High CRI (70+)
- Available standard in 3500 K and 5000 K with additional custom choices from 2700 K to 6500 K available for special order

#### Power supplies

- Two input power ranges for flexibility
- Over-voltage, over-temperature and short circuit protection
- Built-in junction box with 3/4" NPT entry for electrical termination within sealed cavity
- Transient/surge protection: IEEE C62.41 4 kV/4 kV

## WNL LED

### Mounting options

**Surface mount**



**Suspended mount**



Two 6.5 mm x 10 mm slots on each end for suspension hardware (not provided).

**Angle adjustable mount (optional)**

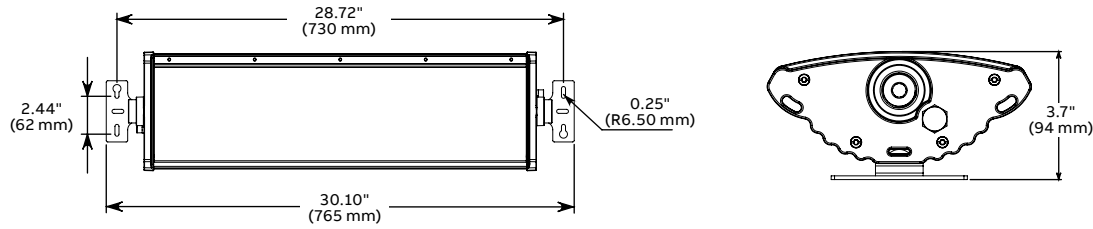


Easy field 360° angle adjustment with 3 mm hex key.

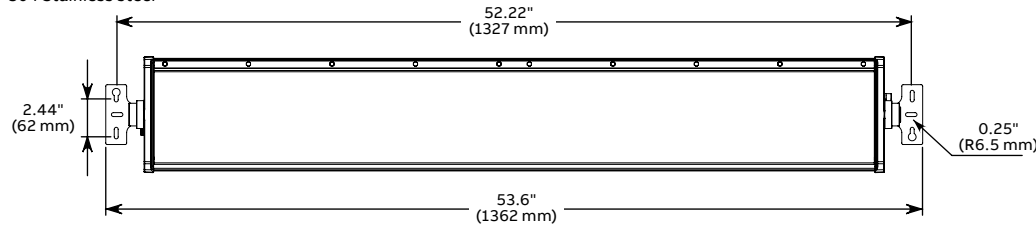
**Surface/suspended mount (standard)**

NL2 : 5.1 kg | 11.3 lbs    NL4 : 10 kg | 22 lbs

**WNL2 – Surface mount** 5.3 kg | 12 lbs (included standard)  
304 Stainless steel



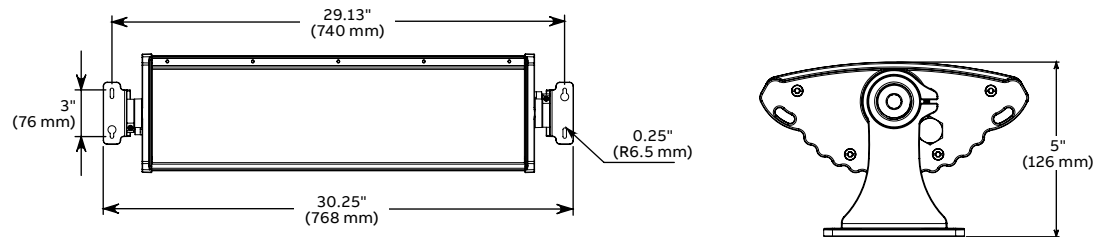
**WNL4 – Surface mount** 8.6 kg | 19 lbs (included standard)  
304 Stainless steel



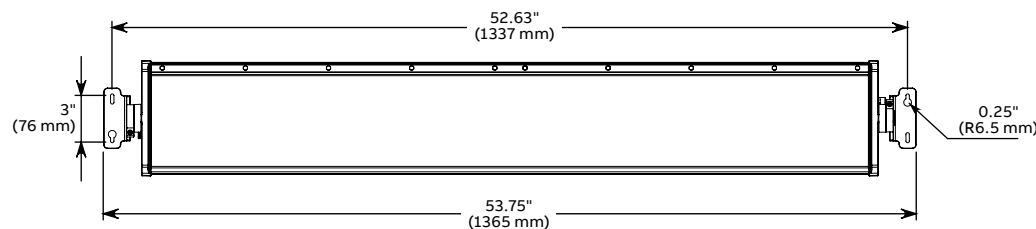
**Adjustable mount (WNL-AM - optional)**

NL2 : 5.1 kg | 11.3 lbs    NL4 : 10 kg | 22 lbs

**WNL2 – Angle adjustable mount (WNL-AM)** 5.3 kg | 12 lbs (optional accessory)



**WNL4 – Angle adjustable mount (WNL-AM)** 8.6 kg | 19 lbs (optional accessory)



# WNL LED

## Fixture comparison

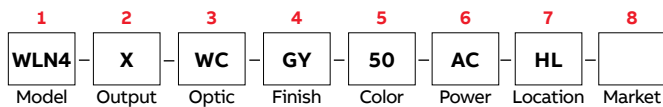
Size	T12						T8						T5			
	4 foot		8 foot		4 foot		8 foot		4 foot		8 foot		4 foot			
Length	Standard		Standard		High output		Standard		High output		Standard		High output			
Rating	2-Lamp	4-Lamp	2-Lamp	2-Lamp	2-Lamp	4-Lamp	6-Lamp	2-Lamp	2-Lamp	2-Lamp	4-Lamp	6-Lamp	2-Lamp	4-Lamp		
Lamp quantity	74	133	158	237	62	112	184	86	112	153	59	118	117	120	240	
Est. power (W)	3,200	6,400	6,000	8,100	3,200	6,400	8,600	4,300	8,800	9,100	3,200	6,400	9,600	6,600	13,200	
Est. lumens LED cross																
Model	Lumens															
WNL2-S	3,970		X		X		X		X		X					
WNL2-H	5,143		X													
WNL2-X	7,965		X		X		X						X		X	
WNL4-S	8,697		X		X		X		X				X		X	
WNL4-H	10,470								X				X			
WNL4-X	14,313														X	

### Electrical ratings

Model	Input voltage	Rated wattage (Watts)	Rated voltage (Volts)	Frequency (Hz)	Ambient temp. (°C)	Total lumens	T-codes (Class I Division 2)	T-codes (Class II Division 2)
WNL2S	AC	36	120-277	50/60	-40 to 55	3,970	T4A	T4
	HV	36	347-480	50/60	-40 to 54	3,970	T4A	T4
WNL2H	AC	52	120-277	50/60	-40 to 55	5,143	T4A	T4
	HV	52	347-480	50/60	-40 to 54	5,143	T4A	T4
WNL2X	AC	70	120-277	50/60	-40 to 52	7,965	T5	T4
	HV	82	347-480	50/60	-40 to 46	7,965	T5	T4A
WNL4S	AC	85	120-277	50/60	-40 to 55	8,697	T4A	T4A
	HV	90	347-480	50/60	-40 to 54	8,967	T4A	T4A
WNL4H	AC	105	120-277	50/60	-40 to 54	10,470	T4A	T4A
	HV	109	347-480	50/60	-40 to 52	10,470	T4A	T4A

## Numbering system

### Lighting fixture



### Options

Part number	Description
WNL-AM-GY	Adjustable mount (order separately)

### Lighting fixture

Part	Part number	Description
1 Model	WNL2	2 foot
	WNL4	4 foot
2 Output	S	Standard
	H	High output
	X	Extra high output (not available with NL4)
3 Optic	WC	Wide (no optics)
4 Finish	GY	Gray
5 Color	50	Cool white
	35	Warm white
6 Power	AC	120 to 277 V AC
	HV	347 to 480 V AC
7 Location	HL	Hazardous location
8 Market	BLANK	Canadian market
	US	US market